

## Title (en)

RADIO COMMUNICATION DEVICE, RADIO COMMUNICATION SYSTEM, AND RADIO COMMUNICATION METHOD

## Title (de)

FUNKKOMMUNIKATIONSVORRICHTUNG, FUNKKOMMUNIKATIONSSYSTEM UND FUNKKOMMUNIKATIONSVERFAHREN

## Title (fr)

DISPOSITIF DE RADIOCOMMUNICATION, SYSTÈME DE RADIOCOMMUNICATION ET PROCÉDÉ DE RADIOCOMMUNICATION

## Publication

**EP 2254366 A4 20140430 (EN)**

## Application

**EP 09718627 A 20090310**

## Priority

- JP 2009001078 W 20090310
- JP 2008062680 A 20080312

## Abstract (en)

[origin: EP2254366A1] To improve throughput by reducing the resource used for transmitting a parameter relating to retransmission control and decreasing the overhead of retransmission control signaling. In a case where a retransmission control method is employed in consideration of adaptive MCS control in which the encoding rate can be changed, the scheduling section sets the MCS in accordance with CQI notified from the communication counterpart apparatus. When transmission data is encoded, the RV parameter bit-number setting section sets the number of bits used for signaling the RV parameter to decrease as the encoding rate of the first transmission is decreased and sets the RV parameter based on the number of bits. For example, in a case where the encoding rate  $R$  is  $R > 2/3$ , two bits are set. In a case where the encoding rate  $1/3 < R \leq 2/3$ , one bit is set. On the other hand, in a case where  $R \leq 1/3$ , zero bits is set.

## IPC 8 full level

**H04L 1/00** (2006.01); **H04L 1/18** (2006.01); **H04W 28/04** (2009.01); **H04W 28/06** (2009.01); **H04W 28/18** (2009.01)

## CPC (source: CN EP US)

**H04B 1/16** (2013.01 - US); **H04L 1/0001** (2013.01 - CN EP US); **H04L 1/0003** (2013.01 - US); **H04L 1/08** (2013.01 - US); **H04L 1/1819** (2013.01 - CN EP US); **H04L 1/1887** (2013.01 - CN EP US); **H04L 1/1896** (2013.01 - CN EP US); **H04W 28/12** (2013.01 - US); **H04W 28/18** (2013.01 - CN EP US); **H04W 72/20** (2023.01 - US)

## Citation (search report)

- [X] EP 1796303 A2 20070613 - SAMSUNG ELECTRONICS CO LTD [KR]
- [X] EP 1624606 A1 20060208 - MATSUSHITA ELECTRIC IND CO LTD [JP]
- [I] BALACHANDRAN K ET AL: "A PROPOSAL FOR EGPRS RADIO LINK CONTROL USING LINK ADAPTATION AND INCREMENTAL REDUNDANCY", BELL LABS TECHNICAL JOURNAL, WILEY, CA, US, vol. 4, no. 3, 1 July 1999 (1999-07-01), pages 19 - 36, XP000878195, ISSN: 1089-7089, DOI: 10.1002/BLTJ.2177
- See references of WO 2009113301A1

## Cited by

EP3445083A4; US10764002B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

## DOCDB simple family (publication)

**EP 2254366 A1 20101124**; **EP 2254366 A4 20140430**; **EP 2254366 B1 20190227**; CN 102084683 A 20110601; CN 102084683 B 20160928; CN 106357366 A 20170125; CN 106357366 B 20200410; JP 2013085281 A 20130509; JP 2014131298 A 20140710; JP 5172943 B2 20130327; JP 5473092 B2 20140416; JP 5703401 B2 20150422; JP WO2009113301 A1 20110721; US 10206198 B2 20190212; US 10694506 B2 20200623; US 11129144 B2 20210921; US 2011007834 A1 20110113; US 2013294251 A1 20131107; US 2015074482 A1 20150312; US 2016135162 A1 20160512; US 2019124642 A1 20190425; US 2020267716 A1 20200820; US 8532164 B2 20130910; US 8942277 B2 20150127; US 9276706 B2 20160301; WO 2009113301 A1 20090917

## DOCDB simple family (application)

**EP 09718627 A 20090310**; CN 200980106851 A 20090310; CN 201610750897 A 20090310; JP 2009001078 W 20090310; JP 2010502722 A 20090310; JP 2012274932 A 20121217; JP 2014014330 A 20140129; US 201313933892 A 20130702; US 201414547893 A 20141119; US 201614996848 A 20160115; US 201816229056 A 20181221; US 202016870054 A 20200508; US 92044709 A 20090310